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NEWS	3 May 12	EXTEND option available in structure searching
NEWS	4 May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5 May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
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NEWS	7 Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
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NEWS	12 AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS	13 AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS	14 AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
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FILE 'HOME' ENTERED AT 12:01:48 ON 02 AUG 2004

=> file medline, agricola, caba, caplus, biosis, biotechno  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 12:02:11 ON 02 AUG 2004

FILE 'AGRICOLA' ENTERED AT 12:02:11 ON 02 AUG 2004

FILE 'CABA' ENTERED AT 12:02:11 ON 02 AUG 2004  
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FILE 'CAPLUS' ENTERED AT 12:02:11 ON 02 AUG 2004  
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COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'BIOTECHNO' ENTERED AT 12:02:11 ON 02 AUG 2004  
COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

=> s (steele, c? or steele c?)/au  
L1 968 (STEELE, C? OR STEELE C?)/AU

=> s (bohlmann, j? or bohlmann j?)/au  
L2 168 (BOHLMANN, J? OR BOHLMANN J?)/AU

=> s (croteau, r? or croteau r?)/au  
L3 1420 (CROTEAU, R? OR CROTEAU R?)/AU

=> s (phillips, m? or phillips m?)/au  
L4 8033 (PHILLIPS, M? OR PHILLIPS M?)/AU

=> s l1 and l2 and l3 and l4  
L5 0 L1 AND L2 AND L3 AND L4

=> s l1 or l2 or l3 or l4  
L6 10492 L1 OR L2 OR L3 OR L4

=> s l6 and (fir or monoterpenes or camphene)  
L7 784 L6 AND (FIR OR MONOTERPENES OR CAMPHENE)

=> s l7 and monoterpenes(w) synthase  
L8 104 L7 AND MONOTERPENES(W) SYNTHASE

=> duplicate remove 18  
DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'  
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/ (N) :n  
PROCESSING COMPLETED FOR L8  
L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)

=> d 19 1-10 ti

L9 ANSWER 1 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Induction of volatile terpene biosynthesis and diurnal emission by methyl jasmonate in foliage of Norway spruce

L9 ANSWER 2 OF 44 MEDLINE on STN DUPLICATE 1  
TI (E)-beta-ocimene and myrcene synthase genes of floral scent biosynthesis in snapdragon: function and expression of three terpene synthase genes of a new terpene synthase subfamily.

L9 ANSWER 3 OF 44 MEDLINE on STN DUPLICATE 2  
TI A cDNA clone for 3-carene synthase from Salvia stenophylla.

L9 ANSWER 4 OF 44 MEDLINE on STN DUPLICATE 3  
TI Functional identification of AtTPS03 as (E)-beta-ocimene synthase: a

**monoterpene synthase** catalyzing jasmonate- and wound-induced volatile formation in *Arabidopsis thaliana*.

- L9 ANSWER 5 OF 44 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
(2004) on STN DUPLICATE 4
- TI cDNA isolation, functional expression, and characterization of (+)-alpha-pinene synthase and (-)-alpha-pinene synthase from loblolly pine (*Pinus taeda*): stereocontrol in pinene biosynthesis.
- L9 ANSWER 6 OF 44 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
(2004) on STN
- TI Alternative termination chemistries utilized by **monoterpene cyclases**: chimeric analysis of bornyl diphosphate, 1,8-cineole, and sabinene synthases.
- L9 ANSWER 7 OF 44 MEDLINE on STN DUPLICATE 5
- TI A novel sex-specific and inducible **monoterpene synthase** activity associated with a pine bark beetle, the pine engraver, *Ips pini*.
- L9 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Traumatic resin defense in Norway spruce (*Picea abies*): Methyl jasmonate-induced terpene synthase gene expression, and cDNA cloning and functional characterization of (+)-3-carene synthase
- L9 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Methyl jasmonate induces traumatic resin ducts, terpenoid resin biosynthesis, and terpenoid accumulation in developing xylem of Norway spruce stems
- L9 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2004 ACS on STN
- TI Mechanism of **monoterpene cyclization**: stereochemistry of the transformation of noncyclizable substrate analogs by recombinant (-)-limonene synthase, (+)-bornyl diphosphate synthase, and (-)-pinene synthase

=> d his

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FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
12:02:11 ON 02 AUG 2004

- L1 968 S (STEELE, C? OR STEELE C?) /AU  
L2 168 S (BOHLMANN, J? OR BOHLMANN J?) /AU  
L3 1420 S (CROTEAU, R? OR CROTEAU R?) /AU  
L4 8033 S (PHILLIPS, M? OR PHILLIPS M?) /AU  
L5 0 S L1 AND L2 AND L3 AND L4  
L6 10492 S L1 OR L2 OR L3 OR L4  
L7 784 S L6 AND (FIR OR MONOTERPENE OR CAMPHENE)  
L8 104 S L7 AND MONOTERPENE(W) SYNTHASE  
L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)

=> s 19 and camphene(w) synthase

L10 2 L9 AND CAMPHENE(W) SYNTHASE

=> s 16 and camphene(w) synthase

L11 5 L6 AND CAMPHENE(W) SYNTHASE

=> s 110 or 111

L12 5 L10 OR L11

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=> duplicate remove l12
DUPLICATE PREFERENCE IS 'MEDLINE, CAPLUS, BIOSIS, BIOTECHNO'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/ (N) :n
PROCESSING COMPLETED FOR L12
L13          2 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)
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=> d l13 1-2 ti

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Cloning and sequences of **monoterpene** synthases from grand  
fir (*Abies grandis*) and their use for alteration of  
**monoterpene** levels and composition of plant seeds

L13 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 1  
TI cDNA cloning, characterization, and functional expression of four new  
monoterpene synthase members of the Tpsd gene family  
from grand fir (*Abies grandis*).

=> d 113 1-2 bib

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:78490 CAPLUS  
DN 134:143867  
TI Cloning and sequences of **monoterpene** synthases from grand  
fir (*Abies grandis*) and their use for alteration of  
monoterpene levels and composition of plant seeds  
IN Steele, Christopher L.; Bohlmann, Joerg; Croteau,  
Rodney B.; Phillips, Michael A.  
PA Washington State University Research Foundation, USA  
SO PCT Int. Appl., 175 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
EAN CNT 2

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007565	A2	20010201	WO 2000-US20264	20000724
	WO 2001007565	A3	20020510		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	WO 9902030	A1	19990121	WO 1998-US14528	19980710
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, TJ, TM, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US	6429014	B1	20020806	US 1999-360545	19990726
AU	2000062382	A5	20010213	AU 2000-62382	20000724
EP	1220899	A2	20020710	EP 2000-948965	20000724
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	US 1997-52249P	A2	19970711		
	WO 1998-US14528	A2	19980710		
	US 1999-360545	A2	19990726		

WO 2000-US20264

W 20000724

L13 ANSWER 2 OF 2 MEDLINE on STN DUPLICATE 1  
AN 1999373092 MEDLINE  
DN PubMed ID: 10441373  
TI cDNA cloning, characterization, and functional expression of four new monoterpenes synthase members of the Tpsd gene family from grand fir (*Abies grandis*).  
AU Bohlmann J; Phillips M; Ramachandiran V; Katoh S;  
Croteau R  
CS Institute of Biological Chemistry and Department of Biochemistry and Biophysics, Washington State University, Pullman, Washington, 99164-6340, USA.  
SO Archives of biochemistry and biophysics, (1999 Aug 15) 368 (2) 232-43.  
Journal code: 0372430. ISSN: 0003-9861.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199909  
ED Entered STN: 19990925  
Last Updated on STN: 19990925  
Entered Medline: 19990909

=> d his

(FILE 'HOME' ENTERED AT 12:01:48 ON 02 AUG 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT 12:02:11 ON 02 AUG 2004

L1 968 S (STEELE, C? OR STEELE C?) /AU  
L2 168 S (BOHLMANN, J? OR BOHLMANN J?) /AU  
L3 1420 S (CROTEAU, R? OR CROTEAU R?) /AU  
L4 8033 S (PHILLIPS, M? OR PHILLIPS M?) /AU  
L5 0 S L1 AND L2 AND L3 AND L4  
L6 10492 S L1 OR L2 OR L3 OR L4  
L7 784 S L6 AND (FIR OR MONOTERPENE OR CAMPHENE)  
L8 104 S L7 AND MONOTERPENE (W) SYNTHASE  
L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)  
L10 2 S L9 AND CAMPHENE (W) SYNTHASE  
L11 5 S L6 AND CAMPHENE (W) SYNTHASE  
L12 5 S L10 OR L11  
L13 2 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)

=> s camphene(s) synthase

L14 16 CAMPHENE (S) SYNTHASE

=> s l14 not l12

L15 11 L14 NOT L12

=> duplicate remove l15

DUPLICATE PREFERENCE IS 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L15

L16 6 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)

=> d l16 1-6 ti

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

TI Mechanism of monoterpene cyclization: stereochemistry of the transformation of noncyclizable substrate analogs by recombinant (-)-limonene synthase, (+)-bornyl diphosphate synthase, and (-)-pinene synthase

L16 ANSWER 2 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1  
TI Monoterpene synthase activities in leaves of *Picea abies* (L.) Karst. and *Quercus ilex* L.

L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Monoterpene synthases from common sage and their cDNA isolation, characterization, and functional expression

L16 ANSWER 4 OF 6 MEDLINE on STN DUPLICATE 2  
TI Monoterpene synthases from common sage (*Salvia officinalis*). cDNA isolation, characterization, and functional expression of (+)-sabinene synthase, 1,8-cineole synthase, and (+)-bornyl diphosphate synthase.

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Sesquiterpene synthases from grand fir (*Abies grandis*). Comparison of constitutive and wound-induced activities, and cDNA isolation, characterization, and bacterial expression of  $\delta$ -selinene synthase and  $\gamma$ -humulene synthase

L16 ANSWER 6 OF 6 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN  
TI Monoterpene biosynthesis: isotope effects associated with bicyclic olefin formation catalyzed by pinene synthases from sage (*Salvia officinalis*).

=> d 116 1-6 bib

L16 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:856562 CAPLUS  
DN 138:183016  
TI Mechanism of monoterpene cyclization: stereochemistry of the transformation of noncyclizable substrate analogs by recombinant (-)-limonene synthase, (+)-bornyl diphosphate synthase, and (-)-pinene synthase  
AU Schwab, W.; Williams, D. C.; Croteau, R.  
CS Lehrstuhl fur Lebensmittelchemie, Universitat Wurzburg, Wurzburg, 97074, Germany  
SO Journal of Molecular Catalysis B: Enzymatic (2002), 19-20, 415-421  
CODEN: JMCEF8; ISSN: 1381-1177  
PB Elsevier Science B.V.  
DT Journal  
LA English  
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 CABA COPYRIGHT 2004 CABI on STN DUPLICATE 1  
AN 2000:117905 CABA  
DN 20000613042  
TI Monoterpene synthase activities in leaves of *Picea abies* (L.) Karst. and *Quercus ilex* L  
AU Fischbach, R. J.; Zimmer, I.; Steinbrecher, R.; Pfichner, A.; Schnitzler, J. P.  
CS Fraunhofer-Institut fur Atmospharische Umweltforschung, Kreuzeckbahnstr, 19, D-82467 Garmisch-Partenkirchen, Germany.  
SO Phytochemistry, (2000) Vol. 54, No. 3, pp. 257-265. 32 ref.  
ISSN: 0031-9422  
DT Journal  
LA English  
ED Entered STN: 20001006  
Last Updated on STN: 20001006

L16 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1999:223012 CAPLUS

DN 130:248763  
TI Monoterpene synthases from common sage and their cDNA isolation,  
characterization, and functional expression  
IN Croteau, Rodney Bruce; Wise, Mitchell Lynn; Katahira, Eva Joy; Savage,  
Thomas Jefferson  
PA Washington State University Research Foundation, USA  
SO PCT Int. Appl., 260 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9915624	A1	19990401	WO 1998-US20120	19980925
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 5891697	A	19990406	US 1997-937540	19970925
	CA 2304799	AA	19990401	CA 1998-2304799	19980925
	AU 9895096	A1	19990412	AU 1998-95096	19980925
	AU 741619	B2	20011206		
	EP 1017788	A1	20000712	EP 1998-948548	19980925
	R: BE, CH, DE, FR, GB, LI, NL				
PRAI	US 1997-937540	A2	19970925		
	WO 1998-US20120	W	19980925		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 6 MEDLINE on STN DUPLICATE 2  
AN 1998279000 MEDLINE  
DN PubMed ID: 9614092  
TI Monoterpene synthases from common sage (*Salvia officinalis*). cDNA  
isolation, characterization, and functional expression of (+)-sabinene  
synthase, 1,8-cineole synthase, and (+)-bornyl diphosphate synthase.  
AU Wise M L; Savage T J; Katahira E; Croteau R  
CS Institute of Biological Chemistry, and the Department of Biochemistry and  
Biophysics, Washington State University, Pullman, Washington 99164-6340,  
USA.  
NC GM-31354 (NIGMS)  
SO Journal of biological chemistry, (1998 Jun 12) 273 (24) 14891-9.  
Journal code: 2985121R. ISSN: 0021-9258.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
OS GENBANK-AF051899; GENBANK-AF051900; GENBANK-AF051901  
EM 199807  
ED Entered STN: 19980723  
Last Updated on STN: 19980723  
Entered Medline: 19980713

L16 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1998:74560 CAPLUS  
DN 128:241051  
TI Sesquiterpene synthases from grand fir (*Abies grandis*). Comparison of  
constitutive and wound-induced activities, and cDNA isolation,  
characterization, and bacterial expression of  $\delta$ -selinene synthase  
and  $\gamma$ -humulene synthase  
AU Steele, Christopher L.; Crock, John; Bohlmann, Jorg; Croteau, Rodney  
CS Inst. Biological Chem., Program Plant Physiol., Dep. Biochem. Biophysics,

Washington State Univ., Pullman, WA, 99164-6340, USA  
SO Journal of Biological Chemistry (1998), 273(4), 2078-2089  
CODEN: JBCHA3; ISSN: 0021-9258  
PB American Society for Biochemistry and Molecular Biology  
DT Journal  
LA English  
RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 6 OF 6 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.  
(2004) on STN  
AN 94:48651 AGRICOLA  
DN IND20400880  
TI Monoterpene biosynthesis: isotope effects associated with bicyclic olefin formation catalyzed by pinene synthases from sage (*Salvia officinalis*).  
AU Wagschal, K.C.; Pyun, H.J.; Coates, R.M.; Croteau, R.  
AV DNAL (381 Ar2)  
SO Archives of biochemistry and biophysics, Feb 1, 1994. Vol. 308, No. 2. p. 477-487  
Publisher: Orlando, Fla. : Academic Press.  
CODEN: ABBIA4; ISSN: 0003-9861  
NTE Includes references  
CY Florida; United States  
DT Article  
FS U.S. Imprints not USDA, Experiment or Extension  
LA English

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(FILE 'HOME' ENTERED AT 12:01:48 ON 02 AUG 2004)

FILE 'MEDLINE, AGRICOLA, CABA, CAPLUS, BIOSIS, BIOTECHNO' ENTERED AT  
12:02:11 ON 02 AUG 2004

L1 968 S (STEELE, C? OR STEELE C?)/AU  
L2 168 S (BOHLMANN, J? OR BOHLMANN J?)/AU  
L3 1420 S (CROTEAU, R? OR CROTEAU R?)/AU  
L4 8033 S (PHILLIPS, M? OR PHILLIPS M?)/AU  
L5 0 S L1 AND L2 AND L3 AND L4  
L6 10492 S L1 OR L2 OR L3 OR L4  
L7 784 S L6 AND (FIR OR MONOTERPENE OR CAMPHENE)  
L8 104 S L7 AND MONOTERPENE(W) SYNTHASE  
L9 44 DUPLICATE REMOVE L8 (60 DUPLICATES REMOVED)  
L10 2 S L9 AND CAMPHENE(W) SYNTHASE  
L11 5 S L6 AND CAMPHENE(W) SYNTHASE  
L12 5 S L10 OR L11  
L13 2 DUPLICATE REMOVE L12 (3 DUPLICATES REMOVED)  
L14 16 S CAMPHENE(S) SYNTHASE  
L15 11 S L14 NOT L12  
L16 6 DUPLICATE REMOVE L15 (5 DUPLICATES REMOVED)

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY

SESSION

53.41

53.62

STN INTERNATIONAL LOGOFF AT 12:08:38 ON 02 AUG 2004

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 May 12 EXTEND option available in structure searching  
NEWS 4 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
NEWS 5 May 27 New UPM (Update Code Maximum) field for more efficient patent  
SDIs in CAplus  
NEWS 6 May 27 CAplus super roles and document types searchable in REGISTRY  
NEWS 7 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT  
NEWS 8 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,  
and WATER from CSA now available on STN(R)  
NEWS 9 Jul 12 BEILSTEIN enhanced with new display and select options,  
resulting in a closer connection to BABS  
NEWS 10 Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction  
with the 228th ACS National Meeting  
NEWS 11 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 12 AUG 02 CAplus and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 13 AUG 02 STN User Update to be held August 22 in conjunction with the  
228th ACS National Meeting  
NEWS 14 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
  
NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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result in loss of user privileges and other penalties.

\* \* \* \* \* \* \* \* \* STN Columbus \* \* \* \* \* \* \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:09:26 ON 02 AUG 2004

=> file uspatfull  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 29 Jul 2004 (20040729/PD)

FILE LAST UPDATED: 29 Jul 2004 (20040729/ED)

HIGHEST GRANTED PATENT NUMBER: US6769133

HIGHEST APPLICATION PUBLICATION NUMBER: US2004148672

CA INDEXING IS CURRENT THROUGH 29 Jul 2004 (20040729/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 29 Jul 2004 (20040729/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2004

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2004

>>> USPAT2 is now available. USPATFULL contains full text of the <<<  
>>> original, i.e., the earliest published granted patents or <<<  
>>> applications. USPAT2 contains full text of the latest US <<<  
>>> publications, starting in 2001, for the inventions covered in <<<  
>>> USPATFULL. A USPATFULL record contains not only the original <<<  
>>> published document but also a list of any subsequent <<<  
>>> publications. The publication number, patent kind code, and <<<  
>>> publication date for all the US publications for an invention <<<  
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<  
>>> records and may be searched in standard search fields, e.g., /PN, <<<  
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<  
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<  
>>> enter this cluster. <<<

>>> <<<

>>> Use USPATALL when searching terms such as patent assignees, <<<  
>>> classifications, or claims, that may potentially change from <<<  
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (steele, c? or steele c?)/au  
66 STEELE, C?/AU  
66 STEELE C?/AU  
L1 66 (STEELE, C? OR STEELE C?)/AU

=> s (bohlmann, j?or bohlmann j?)/au  
'?' TRUNCATION SYMBOL NOT VALID WITHIN 'BOHLMANN, J?OR BOHLMANN J?'  
The truncation symbol ? may be used only at the end of a search term. To specify a variable character within a word use '!', e.g., 'wom!n' to search for both 'woman' and 'women'. Enter "HELP TRUNCATION" at an arrow prompt (=>) for more information.

=> s (bohlmann, j? or bohlmann j?)/au  
11 BOHLMANN, J?/AU  
11 BOHLMANN J?/AU  
L2 11 (BOHLMANN, J? OR BOHLMANN J?)/AU

=> s (croteau, r? or croteau r?)/au  
37 CROTEAU, R?/AU  
37 CROTEAU R?/AU  
L3 37 (CROTEAU, R? OR CROTEAU R?)/AU

=> s (phillips, m? or phillips m?)/au  
317 PHILLIPS, M?/AU  
317 PHILLIPS M?/AU  
L4 317 (PHILLIPS, M? OR PHILLIPS M?)/AU

=> s l1 and l2 and l3 and l4  
L5 1 L1 AND L2 AND L3 AND L4

=> d 15 bib

L5 ANSWER 1 OF 1 USPATFULL on STN  
AN 2003:251075 USPATFULL  
TI Monoterpene synthases from grand fir (*abies grandis*)  
IN Steele, C.L., Ardmore, OK, UNITED STATES  
Bohlmann, Joerg, Jena, GERMANY, FEDERAL REPUBLIC OF  
Croteau, Rodney B., Pullman, WA, UNITED STATES  
Phillips, Michael A., Moscow, ID, UNITED STATES  
PA Washington State University Research Foundation (U.S. corporation)  
PI US 2003175861 A1 20030918  
AI US 2001-25145 A1 20011219 (10)  
RLI Division of Ser. No. US 1999-360545, filed on 26 Jul 1999, GRANTED, Pat.  
No. US 6429014 Continuation-in-part of Ser. No. WO 1998-US14528, filed  
on 10 Jul 1998, PENDING  
PRAI US 1997-52249P 19970711 (60)  
DT Utility  
FS APPLICATION  
LREP CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC, 1420 FIFTH AVENUE, SUITE  
2800, SEATTLE, WA, 98101-2347  
CLMN Number of Claims: 90  
ECL Exemplary Claim: 1  
DRWN 25 Drawing Page(s)  
LN.CNT 5867  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s 11 or 12 or 13 or 14  
L6 422 L1 OR L2 OR L3 OR L4

=> s 16 and camphene (w) synthase  
1261 CAMPHENE  
15368 SYNTHASE  
3 CAMPHENE (W) SYNTHASE  
L7 2 L6 AND CAMPHENE (W) SYNTHASE

=> d 17 1-2 bib

L7 ANSWER 1 OF 2 USPATFULL on STN  
AN 2003:251075 USPATFULL  
TI Monoterpene synthases from grand fir (*abies grandis*)  
IN Steele, C.L., Ardmore, OK, UNITED STATES  
Bohlmann, Joerg, Jena, GERMANY, FEDERAL REPUBLIC OF  
Croteau, Rodney B., Pullman, WA, UNITED STATES  
Phillips, Michael A., Moscow, ID, UNITED STATES  
PA Washington State University Research Foundation (U.S. corporation)  
PI US 2003175861 A1 20030918  
AI US 2001-25145 A1 20011219 (10)  
RLI Division of Ser. No. US 1999-360545, filed on 26 Jul 1999, GRANTED, Pat.  
No. US 6429014 Continuation-in-part of Ser. No. WO 1998-US14528, filed  
on 10 Jul 1998, PENDING  
PRAI US 1997-52249P 19970711 (60)  
DT Utility  
FS APPLICATION  
LREP CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC, 1420 FIFTH AVENUE, SUITE  
2800, SEATTLE, WA, 98101-2347  
CLMN Number of Claims: 90  
ECL Exemplary Claim: 1  
DRWN 25 Drawing Page(s)  
LN.CNT 5867  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 2 USPATFULL on STN  
AN 2002:194743 USPATFULL  
TI Monoterpene synthases from grand fir (*Abies grandis*)  
IN Steele, C. L., Ardmore, OK, United States

Bohlmann, Joerg, Jena, GERMANY, FEDERAL REPUBLIC OF  
Croteau, Rodney B., Pullman, WA, United States  
PA Washington State University Research Foundation, Pullman, WA, United  
States (U.S. corporation)  
PI US 6429014 B1 20020806  
AI US 1999-360545 19990726 (9)  
RLI Continuation-in-part of Ser. No. WO 1998-US14528, filed on 10 Jul 1998  
PRAI US 1997-52249P 19970711 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Bui, Phuong T.  
LREP Christensen O'Connor Johnson Kindness PLLC  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1  
DRWN 25 Drawing Figure(s); 25 Drawing Page(s)  
LN.CNT 5595  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 12:09:26 ON 02 AUG 2004)

FILE 'USPATFULL' ENTERED AT 12:09:46 ON 02 AUG 2004  
L1 66 S (STEELE, C? OR STEELE C?)/AU  
L2 11 S (BOHLMANN, J? OR BOHLMANN J?)/AU  
L3 37 S (CROTEAU, R? OR CROTEAU R?)/AU  
L4 317 S (PHILLIPS, M? OR PHILLIPS M?)/AU  
L5 1 S L1 AND L2 AND L3 AND L4  
L6 422 S L1 OR L2 OR L3 OR L4  
L7 2 S L6 AND CAMPHENONE (W) SYNTHASE

=> s camphene (w) synthase

1261 CAMPHENONE  
15368 SYNTHASE  
L8 3 CAMPHENONE (W) SYNTHASE

=> s 18 not 17

L9 1 L8 NOT L7

=> d 19 bib

L9 ANSWER 1 OF 1 USPATFULL on STN  
AN 2002:99102 USPATFULL  
TI Directed evolution of biosynthetic and biodegradation pathways  
IN Schmidt-Dannert, Claudia, Shoreview, MN, UNITED STATES  
Arnold, Frances H., Pasadena, CA, UNITED STATES  
PA CALIFORNIA INSTITUTE OF TECHNOLOGY (U.S. corporation)  
PI US 2002051998 A1 20020502  
AI US 2000-733759 A1 20001208 (9)  
PRAI US 1999-169594P 19991208 (60)  
US 2000-211894P 20000614 (60)  
DT Utility  
FS APPLICATION  
LREP DARBY & DARBY P.C., 805 Third Avenue, New York, NY, 10022  
CLMN Number of Claims: 31  
ECL Exemplary Claim: 1  
DRWN 13 Drawing Page(s)  
LN.CNT 4167  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

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L1        66 S (STEELE, C? OR STEELE C?)/AU  
L2        11 S (BOHLMANN, J? OR BOHLMANN J?)/AU  
L3        37 S (CROTEAU, R? OR CROTEAU R?)/AU  
L4        317 S (PHILLIPS, M? OR PHILLIPS M?)/AU  
L5        1 S L1 AND L2 AND L3 AND L4  
L6        422 S L1 OR L2 OR L3 OR L4  
L7        2 S L6 AND CAMPHENENE (W) SYNTHASE  
L8        3 S CAMPHENENE (W) SYNTHASE  
L9        1 S L8 NOT L7

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	11.78	11.99

STN INTERNATIONAL LOGOFF AT 12:13:27 ON 02 AUG 2004